

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 01231897
PUBLICATION DATE : 18-09-89

APPLICATION DATE : 11-03-88
APPLICATION NUMBER : 63057786

APPLICANT : FUJI PHOTO FILM CO LTD;

INVENTOR : KATSUYAMA SHUNKAI;

INT.CL. : C12Q 1/54 G01N 33/66

TITLE : DRY GLUCOSE-ANALYZING ELEMENT

ABSTRACT : PURPOSE: To provide a dry glucose-analyzing element capable of quantitatively analyzing glucose in a high accuracy up to a high concentration region of the glucose by adding specific components to a reagent layer and an enzyme-containing layer, respectively, disposed on a support and using a special material in a light-shielding layer.

CONSTITUTION: A reagent layer, enzyme-containing layer, light-shielding layer and porous developing layer, all being water-permeable, are laminated in this order to a water and light-impermeable support. At least a coupler among a hydrogen peroxide-detecting coloring composition comprising a hydrogen donor and the couple is added to the reagent layer and glucose oxidase, peroxidase and a mordant are added to the enzyme-containing layer. An oxygen-permeable and protein-impermeable material is used for the light-shielding layer. It is preferable that the light-shielding layer is a non-porous layer wherein titanium dioxide fine powder having a light-shielding property and a light-reflecting property are bonded with a hydrophilic polymer having a little film formability.

COPYRIGHT: (C)1989,JPO&Japio